PSEG Nuclear LLC
P.O. Box 236, Hancocks Bridge, NJ 08038-0236

MAR 29 2013

PSEG
Nuclear LLC

LR-E13-0042

EPP 5.4.2 Appendix B

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7012 1640 0000 4257 4395

SUBJECT: **REPORT OF IMPINGEMENT OF ATLANTIC STURGEON**
SALEM GENERATING STATION UNIT NO. 1
DOCKET NO. 50-272

The Nuclear Environmental Event Report, "Report of Impingement of Atlantic Sturgeon" is being submitted pursuant to the requirements of Section 5.4.2 of Appendix B, Environmental Protection Plan, to the Operating License for the Salem Generating Station, PSEG Nuclear LLC (PSEG).

Please find enclosed a letter and two attachments with further information regarding this impingement event.

If you have any questions or require additional information, please do not hesitate to contact Jeffrey Pantazes, Manager – Nuclear Environmental Affairs at (856) 339-7900.

Sincerely,

Lawrence M. Wagner
Plant Manager - Salem
PSEG Nuclear LLC

Attachments (2)

IE23
NRR

REPORT OF IMPINGEMENT OF ATLANTIC STURGEON

In accordance with Section 5.4.2 of Appendix B, Environmental Protection Plan, to the Operating License for the Salem Generating Station, PSEG Nuclear LLC (PSEG) hereby transmits notification of a nonroutine event, and documents the occurrence and removal of an Atlantic sturgeon (*Acipenser oxyrhinchus*) from the Salem Generating Station circulating water intake structure trash bars.

Consultation pursuant to Section 7 of the Endangered Species Act of 1973 (ESA) between NRC and the National Marine Fisheries Service (NMFS) on the effects of the operation of Salem Station on threatened and endangered species has been ongoing since 1979. The most recent revision to the Biological Opinion and Incidental Take Statement issued in January 1999 exempts the specified annual take of shortnose sturgeon and sea turtles. In advance of relicensing for Salem Station, consultation pursuant to Section 7 of the ESA between NRC and NMFS was reinitiated in 2009. On April 6, 2012, the NMFS listed five Distinct Population Segments of Atlantic sturgeon as threatened or endangered under the ESA. In May 2012, NRC requested consultation on the effects of the continued operation of Salem Station on Atlantic sturgeon. The NMFS issued a draft Biological Opinion and Incidental Take Statement (ITS) in July 2012 that, when finalized, will authorize a specified incidental take of both Atlantic sturgeon and shortnose sturgeon associated with operation of the Salem Station circulating water intake system.

Pursuant to Section 5.4.2 of the Environmental Protection Plan for Salem Station, nonroutine events which require reporting to other federal agencies shall be reported in accordance with the other agencies' reporting requirements. Accordingly, enclosed please find two (2) attachments. Attachment 1 provides the information requested by the NMFS in Appendix II to the current ITS and in Appendix B, Part 2, to the revised draft ITS. Attachment 2 is a copy of a Sturgeon Salvage Form verbally requested by the NMFS.

There are no commitments contained in this letter.

cc: Mr. William Dean, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. John Hughey, Licensing Project Manager - Salem
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop 0-4D-3
Rockville, MD 20852

USNRC Senior Resident Inspector - Salem
Mail Code X24

Mr. P. Mulligan, Manager
Bureau of Nuclear Engineering
New Jersey Department of Environmental Protection
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Mail Code: 33-01
Trenton, NJ 08625-0420

Ms. Lynn Lankshear
National Marine Fisheries Service
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Gloucester, MA 01930

Ms. Karen Greene
National Marine Fisheries Service
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Mr. Dave Jenkins
Endangered and Nongame Species Program
New Jersey Department of Environmental Protection
1 Van Syckels Road
Clinton, NJ 08809

Salem Commitment Coordinator
Mail Code X25

bc: Salem Site Vice President
Salem Plant Manager
Director – Regulatory Affairs
Manager – Nuclear Environmental Affairs
Regulatory Assurance Manager – Salem
Records Management

STURGEON SALVAGE FORM

For use in documenting dead sturgeon in the wild under ESA permit no. 1614 (version 07-20-2009)

INVESTIGATORS'S CONTACT INFORMATION
Name: First **Matthew** Last **Parris**
Agency Affiliation **Environmental Consulting Services, Inc. (ECSI)**
Email **Matthew.Parris@pseg.com**
Address **P.O. Box 236 M/C H18 Hancocks Bridge NJ, 08038**
Area code/Phone number **(302) 378-9881 ext. 205**

UNIQUE IDENTIFIER (Assigned by NMFS)
Abr090012011NJ

DATE REPORTED:
Month **03** Day **14** Year **2013**
DATE EXAMINED:
Month **03** Day **14** Year **2013**

SPECIES: (check one)
☐ shortnose sturgeon
☒ Atlantic sturgeon
☐ Unidentified *Acipenser* species
Check "Unidentified" if uncertain .

LOCATION FOUND: ☐ Offshore (Atlantic or Gulf beach) ☒ Inshore (bay, river, sound, inlet, etc)
River/Body of Water **Delaware River** City **Hancocks Bridge** State **NJ**
Descriptive location (be specific) **Collected during Supplemental Impingement Sampling at the Salem Generating Station, PSEG Nuclear LLC.**
Latitude **39° 27'38.17** N (Dec. Degrees) Longitude **75° 32'10.08** W (Dec. Degrees)

CARCASS CONDITION at time examined: (check one)
☐ 1 = Fresh dead
☐ 2 = Moderately decomposed
☐ 3 = Severely decomposed
☐ 4 = Dried carcass
☐ 5 = Skeletal, scutes & cartilage

SEX:
☒ Undetermined
☐ Female ☐ Male
How was sex determined?
☐ Necropsy
☐ Eggs/milt present when pressed
☐ Borescope

MEASUREMENTS:
Fork length **382** mm
Total length **443** mm
Length ☒ actual ☐ estimate
Mouth width (inside lips, see reverse side) _____ cm / in
Interorbital width (see reverse side) _____ cm / in
Weight ☒ actual ☐ estimate **not weighed** kg

TAGS PRESENT? Examined for external tags including fin clips? ☒ Yes ☐ No Scanned for PIT tags? ☒ Yes ☐ No

Tag #	Tag Type	Location of tag on carcass

CARCASS DISPOSITION: (check one or more)
☐ 1 = Left where found
☐ 2 = Buried
☐ 3 = Collected for necropsy/salvage
☐ 4 = Frozen for later examination
☒ 5 = Other (describe) **Specimen collected alive and released back to the Delaware River through the Detritus Discharge Pipe (DDP).**

Carcass Necropsied?
☐ Yes ☒ No
Date Necropsied: _____
Necropsy Lead: _____

PHOTODOCUMENTATION:
Photos/vide taken? ☒ Yes ☐ No
Disposition of Photos/Video: **Attached**

SAMPLES COLLECTED? ☐ Yes ☒ No

Sample	How preserved	Disposition (person, affiliation, use)

Comments: **The live Atlantic sturgeon was collected during Supplemental Impingement Sampling on March 14, 2013 at 11:40. Photos, length measurements, and an inspection for external and PIT tags was made. No external or PIT tags were found. The fish was released back to the Delaware River at 12:30 via the Salem Generating Station Circulating Water Intake System Detritus Discharge Pipe.**

ATTACHMENT 1 (Sturgeon)

Observer's full name: Matthew Parris
Reporter's full name: Matthew Parris

Species Identification (Key attached): Atlantic sturgeon (Acipenser oxyrhinchus)

Site of Impingement (Unit 1 or 2, CWS or DWS, Bay #, etc.): Fish counting pool

Date animal observed: 3/14/13 Time animal observed: 11:40
Date animal collected: 3/14/13 Time animal collected: 11:40
Date rehab facility contacted: N/A Time rehab facility contacted: N/A
Date animal picked up: N/A Time animal picked up: N/A

Environmental conditions at time of observation (i.e., tidal stage, weather):
Tidal stage: 91.0 ft (flooding tide)

Date and time of last inspection of screen: 3/14/13 @ 10:48
Water temperature (°C) at site and time of observation: 8 degrees Celsius
Number of pumps operating at time of observation: Unit 1 5 Unit 2 6
Average percent of power generating capacity achieved per unit at time of observation:
Unit 1 100 Unit 2 100
Average percent of power generating capacity achieved per unit over the 48 hours previous to observation: Unit 1 100 Unit 2 100

Sturgeon Information:
Species Atlantic sturgeon (Acipenser oxyrhinchus)

Fork length (or total length) 443 mm (total length) Weight not weighed

Condition of specimen/description of animal

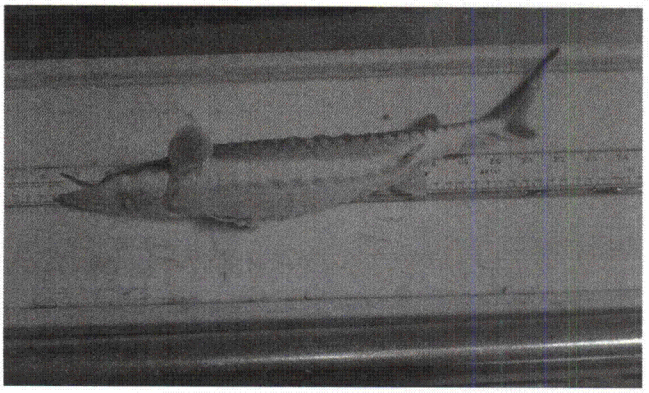
The Atlantic sturgeon was alive and in good condition when found; no surface abrasions or other damage was observed.

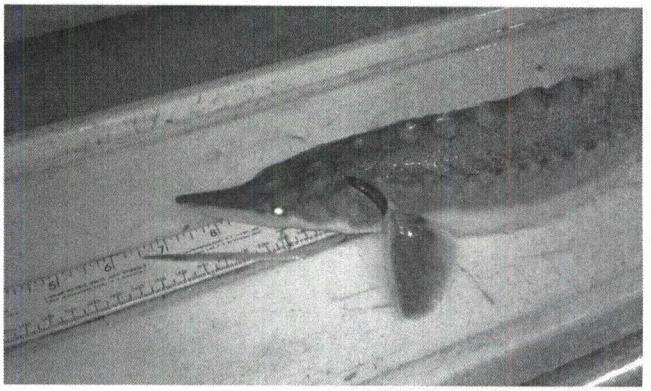
Fish Decomposed: (NO) SLIGHTLY MODERATELY SEVERELY
Fish tagged: YES / (NO) *Please record all tag numbers.* Tag # _____

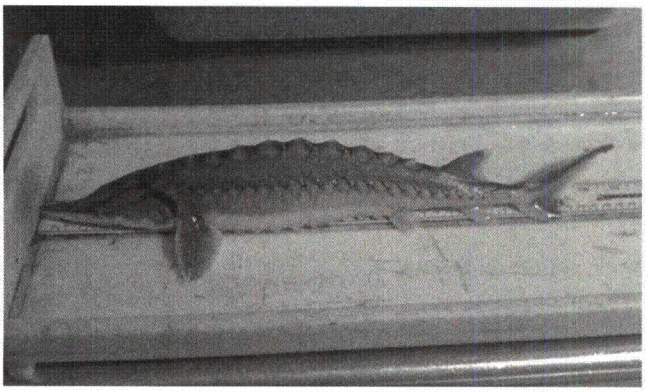
Photograph attached: (YES) / NO
(please label *species, date, geographic site* and *vessel name* on back of photograph)

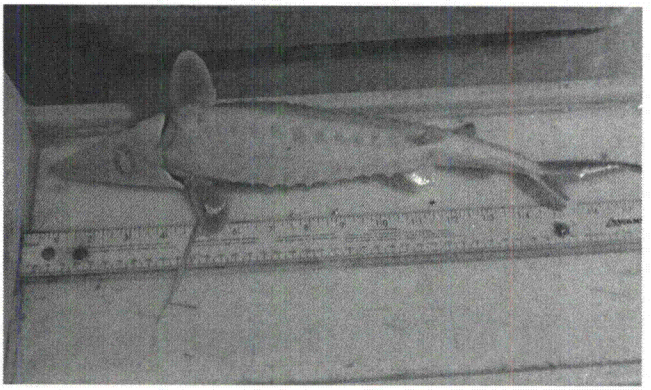
ATTACHMENT 1 (Sturgeon) continued

Photographs (if available)



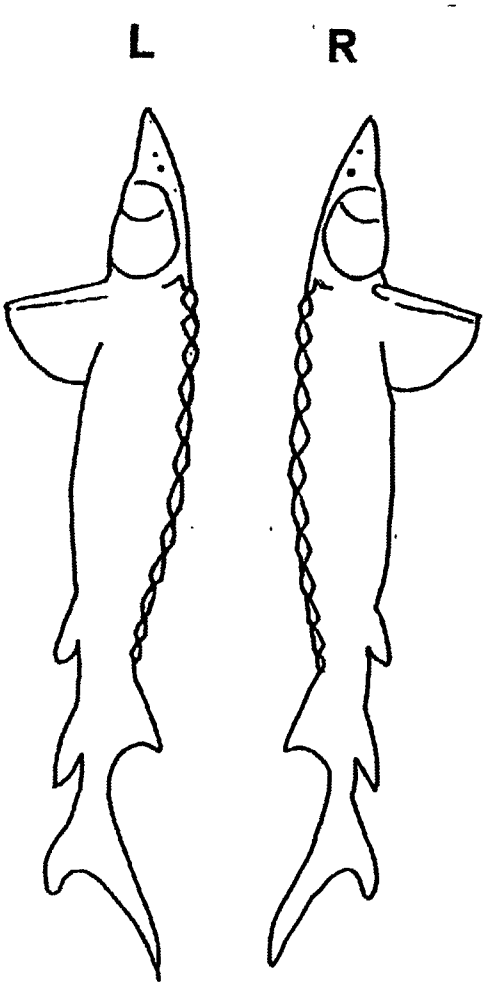






ATTACHMENT 1 (Sturgeon) continued

Draw wounds, abnormalities, tag locations on diagram and briefly describe below



Description of fish condition:

The Atlantic sturgeon was alive and in good condition when found. No surface abrasions or other damage was observed.